



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF34-8E5 BYPASS RATIO: 5.1
 UNIQUE ID NUMBER: 6GE094 PRESSURE RATIO (π_{00}): 23.2
 COMBUSTOR: LEC
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 59.7

REGULATORY DATA **** DATA SUPERSEDED **** SEE FOLLOWING UID FOR REVISED DATA: **8GE108**

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	0.5	42.5	43.2	11.1
AS % OF ORIGINAL LIMIT	2.6	36.0	50.0	40.7
AS % OF CAEP/2 LIMIT (NO _x)			62.5	
AS % OF CAEP/4 LIMIT (NO _x)			69.4	
AS % OF CAEP/6 LIMIT (NO _x)			73.7	
AS % OF CAEP/8 LIMIT (NO _x)			82.5	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	0.652	0.02	0.64	14.77	8.6
CLIMB OUT	85	2.2	0.533	0.02	0.57	12.65	2.6
APPROACH	30	4.0	0.180	0.06	4.23	10.77	0.0
IDLE	7	26.0	0.064	0.13	18.16	4.61	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			241	18	2065	2222	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				0.3	34.6	37.3	8.6
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.1-98.1
TEMPERATURE (K)	284-292
ABS HUMIDITY (kg/kg)	0.0047-0.00727

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	18

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: Peebles Test Organisation
 TEST LOCATION: Peebles, Ohio
 TEST DATES: 27/01/2002-28/01/2002

REMARKS

1. GE Report R2001AE078
2. Engine S/N 193111
3. LEC combustor
4. Minor change to climb SN (2.64 to 2.24) in Issue 15

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)